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# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
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June 21, 2002

TO: Internal File

THRU: Daron R. Haddock, Permit Supervisor *DRH*

FROM: Gregg Galecki, Reclamation Hydrologist, Team Lead *AG*

RE: Address Addition of Baseline Water Monitoring Parameters, Canyon Fuel Co., Dugout Mine, C/007/039-AM02F

## SUMMARY:

The following technical analysis is in response to an amendment submitted to the Division on June 7, 2002. The submittal is being made to clarify what parameters at what frequency are being collected during baseline sampling. Primarily, the parameters for baseline sampling have been added to Tables 7-4 and 7-5, with additional clarifying text changes. The amendment meets the minimum regulatory requirements.

## TECHNICAL ANALYSIS:

## OPERATION PLAN

## HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-148, -301-512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

## Analysis:

### Ground-water monitoring

Prior to the current submittal, the requirements outlining baseline were 'hidden' in an attached report / appendix. Table 7-4 has been modified to include the baseline monitoring

**TECHNICAL MEMO**

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requirements. The baseline parameters are identical to the recommended parameters outlined in Division Technical Directive 004. Other minor text changes have been added to clarify the sampling program.

**Surface-water monitoring**

As with the groundwater monitoring, the requirements for baseline sampling were not clearly defined. Table 7-5 has been modified to include the baseline monitoring requirements. Parameters are identical to the recommended parameters outlined in Division Technical Directive 004. Other changes include outlining the correct fork of Dugout Creek for the sample site descriptions, and other minor text changes. Sample sites DC-4, DC-5, PC-1A, PC-2 and RC-1 are not being sampled for 'Oil and Grease' since they are located outside the area influenced by mining related disturbance.

**Findings:**

The application adequately addresses the minimum regulatory requirements of the Operation Plan – Hydrologic Information section of the regulations.

**RECOMMENDATION**

The proposed amendment can be approved in its present form.